Resistive touchscreen

1 General

In case of repair, replace the complete “resistive touchscreen”.

Electrostatic discharge may damage electrostatic sensitive devices. When handling electrostatic sensitive devices, use a static-dissipative mat and a static dissipative wrist strap.

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2 Replacing the “resistive touchscreen”

1 Switch off the device.

2 Unplug the power plug of the device from the socket-outlet.

Electrostatic discharge may damage electrostatic sensitive devices. When handling electrostatic sensitive devices, use a static-dissipative mat and a static dissipative wrist strap.

3 Create ESD conditions.

4 Remove the control unit from the interlock of the device and place it on a static-dissipative mat.

5 Unscrew the screws of the plug-in connector (Fig. 1/1) on the back of the control unit, and disconnect the connecting cable from the control unit.

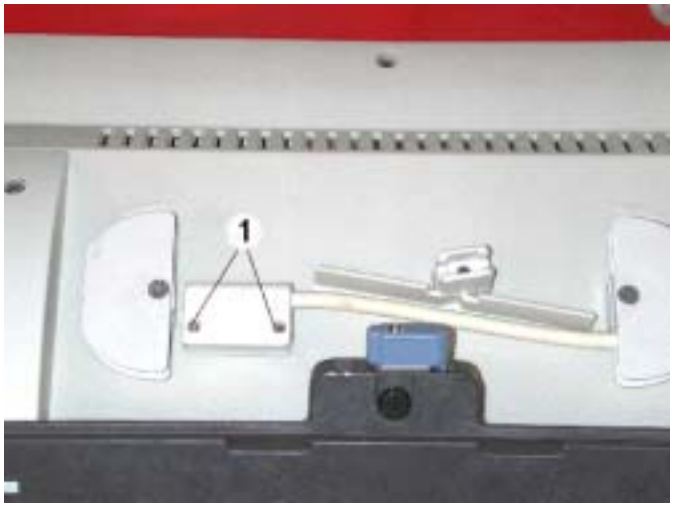

Fig. 1 Rear panel of the control unit; plug-in connector

6 Remove the screws (Fig. 2/1).

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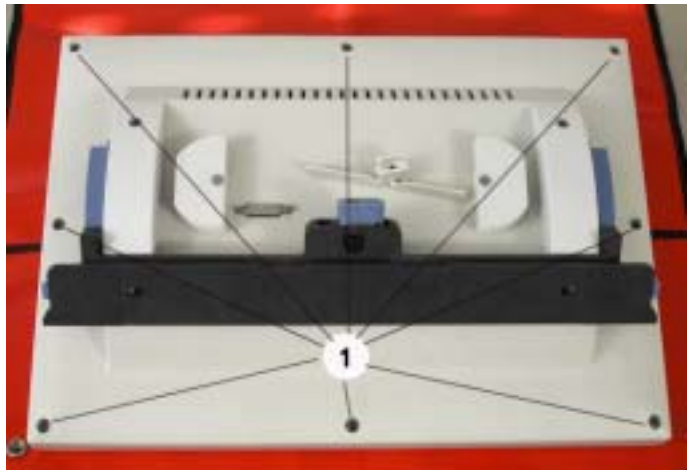

Fig. 2 Rear panel of the control unit; screws

7 Remove the rear panel and put it aside.

8 Pull out the cable connector (Fig. 3/1).

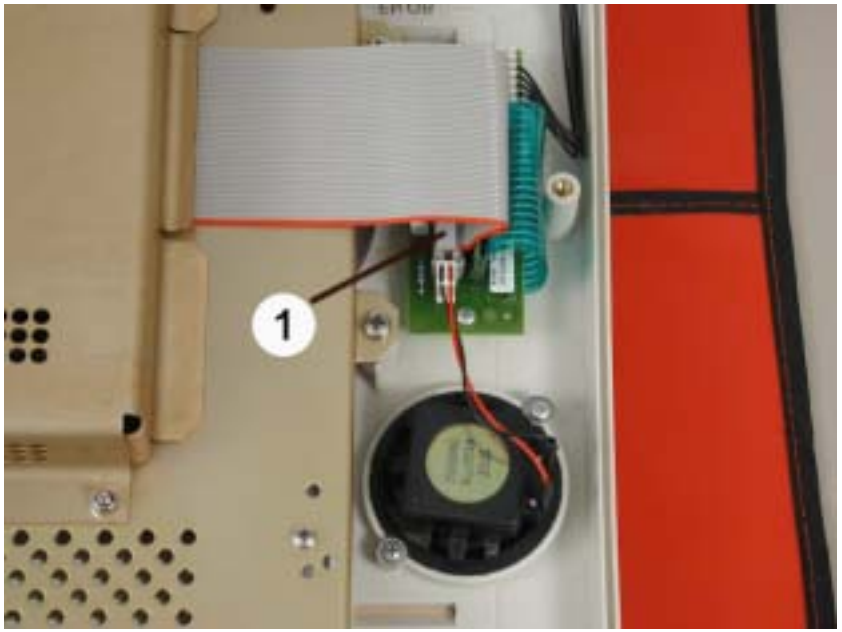

Fig. 3 Detail of the control unit; cable connector

9 Hold the flex cable near the connection socket (Fig. 4) and pull it slowly and carefully out of the connection socket.

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Fig. 4 Adapter PCB, flex cable

10 Remove the screws (Fig. 5/1).

11 Carefully remove the installation frame from the front frame and put it aside **(Note: the “resistive touchscreen” is only loosely mounted in the front frame with a sealing; if the sealing sticks to the display, the “resistive touchscreen” could be unintentionally removed in the process and might fall down!)**.

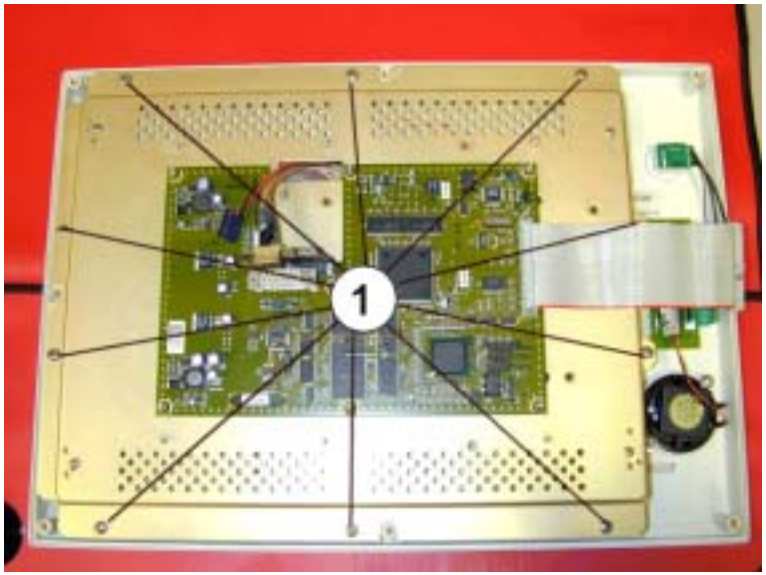

Fig. 5 Front frame; removing the installation frame

12 Remove the “resistive touchscreen” together with the sealing (Fig. 6) from the front frame.

Fig. 6 Front frame; “resistive touchscreen” with sealing

13 Undo the sealing from the faulty “resistive touchscreen”.

A faulty “resistive touchscreen” is special waste. Dispose of a faulty “resistive touchscreen” according to applicable waste disposal regulations.

14 Dispose of the faulty “resistive touchscreen” according to applicable waste disposal regulations.

15 Apply talcum powder on the sealing.

16 Place the sealing such that the recess for the flex cable is up and points to the right.

17 Turn the new “resistive touchscreen” such that the flex cables points to the right.

18 Place the “resistive touchscreen” (with the rough surface down) onto the sealing.

19 Attach the “resistive touchscreen” to the sealing.

20 Place the new “resistive touchscreen” into the front frame.

21 Clean the inner side of the “resistive touchscreen” with a mild window cleaning agent and a dry cloth.

22 Clean the glass of the display with a mild window cleaning agent and a dry cloth.

23 Place the installation frame (cables pointing to the right) into the front frame.

24 Secure the installation frame to the front frame using the screws (Fig. 7/1).

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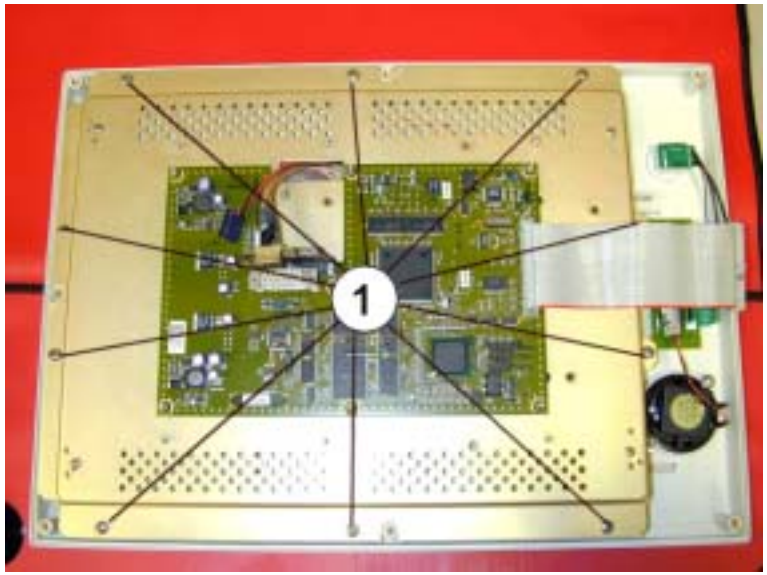

Fig. 7 Control unit, installation frame

25 Turn the front frame around and check whether the “resistive touchscreen” lies flat in the front frame, correct the position of the installation frame, if necessary **(Note: there should be no gap between touchscreen and housing!)**.

26 Hold the flex cable near the connections (Fig. 8) and push the flex cable slowly and carefully into the connection socket.

Fig. 8 Adapter PCB, flex cable

27 Plug the cable connector (Fig. 9/1) into the connection socket of the Adapter PCB.

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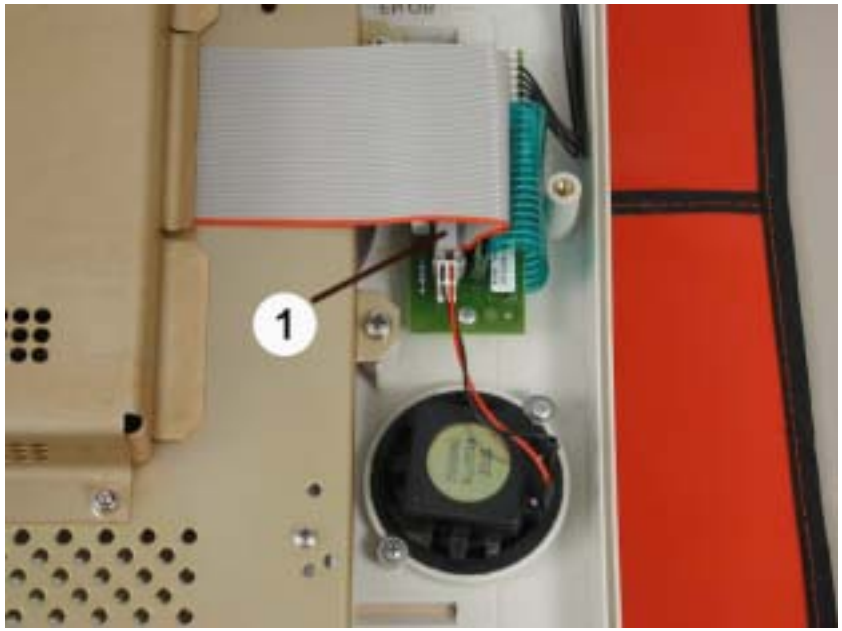

Fig. 9 Detail of the control unit; cable connector

28 Place the rear panel onto the front frame and secure it with the screws (Fig. 10/1).

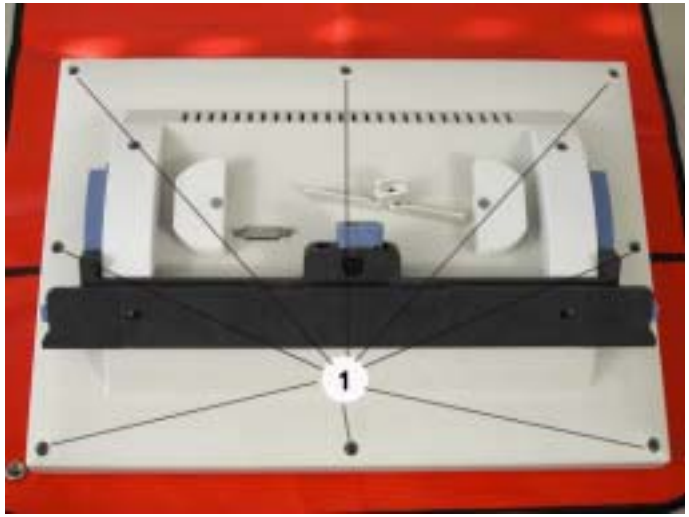

Fig. 10 Rear panel of the control unit

29 Plug the connection cable into the connection socket of the control unit, and secure the plug-in connector to the control unit using the screws (Fig. 11/1).

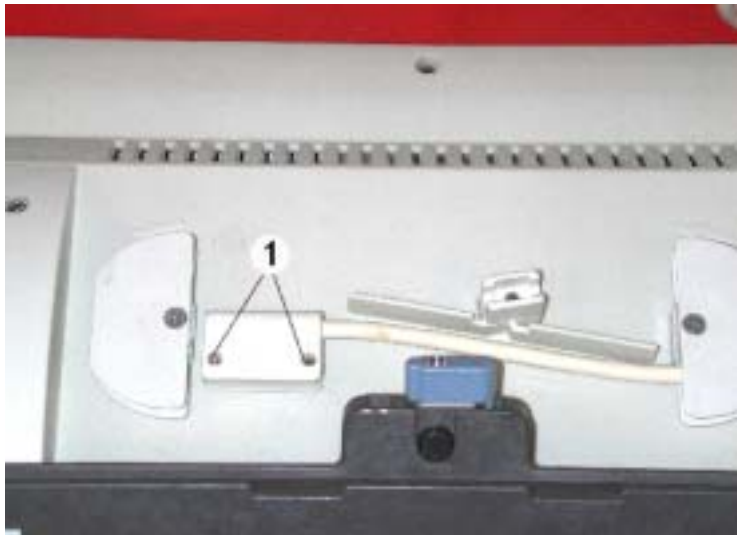

Fig. 11 Detail of the control unit; plug-in connector

30 Push the control unit into the interlock of the device.

31 Plug the power plug of the device into the socket-outlet.

32 Switch the device on.

33 Perform “electrical safety tests” and “function tests” as described in the PMS procedure. For the USA and Canada: test according to CAN/CSA-22.2 No. 601.1-M90.

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